

CLAIMS

I Claim:

1. A combination of a seating system and a shared sensor for a vehicle, comprising:

a seating system having a seat section and a back section, an adjustable bolster coupled to one of said seat section and said back section, and a control unit coupled to said adjustable bolster and adapted to receive vehicle data and to activate said adjustable bolster; and

a shared sensor coupled to said control unit of said seating system and to another system in the vehicle and adapted to collect and transmit vehicle data.

2. The combination of Claim 1, wherein said shared sensor is coupled to a vehicle dynamics system of the vehicle.

3. The combination of Claim 2, wherein the vehicle dynamics system is adapted to control a braking subsystem of the vehicle dynamics system of the vehicle.

4. The combination of Claim 1, wherein said shared sensor is coupled to a safety system of the vehicle.

5. The combination of Claim 4, wherein the safety system is adapted to control an inflatable restraint subsystem of the safety system of the vehicle.

6. The combination of Claim 1, wherein the vehicle data includes lateral acceleration data.

7. The combination of Claim 1, wherein the vehicle data includes vehicle speed data and steering wheel angle data.

8. The combination of Claim 1, wherein the vehicle data includes yaw rate data.

9. A seating system for a vehicle having a shared sensor, comprising:  
a seat section and a back section;  
an adjustable bolster coupled to one of said seat section and said back section; and  
a control unit coupled to said adjustable bolster and to the shared sensor and adapted to receive vehicle data from the shared sensor and to activate said adjustable bolster.

10. The seating system of Claim 9, wherein the shared sensor is coupled to a vehicle dynamics system of the vehicle.

11. The seating system of Claim 10, wherein the vehicle dynamics system is adapted to control a braking subsystem of the vehicle dynamics system of the vehicle.

12. The seating system of Claim 9, wherein the shared sensor is coupled to a safety system of the vehicle.

13. The seating system of Claim 12, wherein the safety system is adapted to control an inflatable restraint subsystem of the safety system of the vehicle.

14. The seating system of Claim 9, wherein the vehicle data includes lateral acceleration data.

15. The seating system of Claim 9, wherein the vehicle data includes vehicle speed data steering wheel angle data.

16. The seating system of Claim 9, wherein the vehicle data includes yaw rate data.